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CLAIMS

- 1) DNA sequence of the htFIIIA gene coding for a protein having the biological function of human transcription factor htFIIIA.
- 5 2) DNA sequence of the htFIIIA gene of the human transcription factor htFIIIA according to claim 1, coding for the amino acid sequence SEQ ID N°2.
- 3) DNA sequence of the htFIIIA gene according to claim 1 ~~or 2~~ containing the nucleotide sequence SEQ ID N°3
- 10 4) DNA sequence of the htFIIIA gene according to claims 1 ~~to~~ ~~7~~ containing the nucleotide sequence SEQ ID N°4.
- 5) DNA sequence according to claim 4 having the sequence beginning at nucleotide 176 and finishing at the nucleotide 1270 of SEQ ID N°3.
- 15 6) DNA sequence coding for the human transcription factor htFIIIA according to claims 1 ~~to 5~~ as well as the DNA sequences which hybridize with it and/or show a significant homology with this sequence or fragments of it and which code for a protein with the same function.
- 20 7) DNA sequence according to claims 1 ~~to 6~~ comprising modifications introduced by suppression, insertion and/or substitution of at least one nucleotide coding for a protein with the same biological activity as human transcription factor htFIIIA.
- 25 8) DNA sequence according to ~~one of~~ claims 1 ~~to 7~~ as well as similar DNA sequences which have nucleotide sequence homology of at least 50 % or at least 60 % and preferably at least 70 % with the said DNA sequence.
- 30 9) DNA sequence according to ~~one of~~ claims 1 ~~to 8~~ as well as similar DNA sequences which code for a protein, the AA sequence of which has a homology of at least 40 % and in particular 45 % or at least 50 %, rather at least 60 % and preferably at least 70 % with the AA sequence coded by the said DNA sequence.
- 35 10) Polypeptide having the function of human transcription factor htFIIIA and with the amino acid sequence SEQ ID N°2 coded by the DNA sequence according to ~~one of~~ claims 1 ~~to 9~~ and the analogues of this polypeptide.

- 11) Process for the preparation of the hTFIIIA recombinant protein having the amino acid sequence SEQ ID N°2 comprising the expression of the DNA sequence according to ~~one of claims~~ 1 ~~to 9~~ in an appropriate host, then isolation and purification of the said recombinant protein.
- 12) Expression vector containing the DNA sequence according to ~~one of claims~~ 3 ~~to 9~~.
- 13) Host cell transformed with a vector according to claim 12
- 14) Plasmid deposited at the CNCM under the number I-2071.
- 15) Use of the human transcription factor htfIIIA gene or of the human transcription factor coded by this gene according to one of the claims 1 to 10 for the preparation of compositions which can be used for the diagnosis or treatment of diseases linked to a disorder in transcription control.
- 16) Use according to claim 15 for which the disease concerned is cancer.

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